

United States Patent and Trademark Office



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NOTICE OF ALLOWANCE AND FEE(S) DUE

	590 08/13/2002 INTHROP LLP	F	EXAMIN	ER	
PILLSBURY WINTHROP, LLP P.O. BOX 10500 MCLEAN, VA 22102			SPECTOR, DAVID N		
WCLEAN, VA 22	102		ART UNIT	CLASS-SUBCLASS	
			2873	359-687000	
		DA	TE MAILED: 08/13/2002		
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/708.087	11/08/2000	Yuji Miyauchi	P 275329 OL9200N-US	9921	

TITLE OF INVENTION: ZOOM LENS SYSTEM, AND IMAGE PICKUP SYSTEM USING THE SAME-

	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional		NO	\$1280	\$0	\$1280	11/13/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.





Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

Note: A certificate of mailing can only be used for domestic mailings of the

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

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08/13/2002

PILLSBURY WINTHROP, LLP P.O. BOX 10500 MCLEAN, VA 22102 Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)	
(Signature)	
(Date)	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/708.087	11/08/2000	Yuii Mivauchi	P 275329 OL9200N-US	9921

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nonprovisional	nonprovisional NO \$1280		\$0	\$1280	11/13/2002
EXAMI	NER	ART UNIT	CLASS-SUBCLASS		
SPECTOR, I	DAVID N	2873	359-687000		
1. Change of corresponden CFR 1.363).	ice address or indication of	"Fee Address" (37	2. For printing on the patent from the names of up to 3 registered	patent attorneys	·
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			or agents OR, alternatively, (2) the name of a single firm (having as a member a registered		
"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			attorney or agent) and the nar registered patent attorneys or ag- is listed, no name will be printed.	ents. If no name	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or category 4a. The following fee(s) are enclosed:	ories (will not be printed on the patent)			
☐ Issue Fee	☐ A check in the amount of the fee(s) is enclosed.			
☐ Publication Fee	□ Payment by credit card. Form PTO-2038 is attached. □ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number(enclose an extra copy of this form).			
☐ Advance Order - # of Copies				
Commissioner for Patents is requested to apply the Issue	e Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.			
(Authorized Signature)	(Date)			
NOTE; The Issue Fee and Publication Fee (if requirements other than the applicant; a registered attorney or againterest as shown by the records of the United States P	gent; or the assignee or other party in			

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

	APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION N	
	09/708,087	09/708,087 11/08/2000		Yuji Miyauchi	P 275329 OL9200N-US 9921	
	909 7590 08/13/2002		08/13/2002		EXAMINER	
PILLSBURY WINTHROP, LLP		ROP, LLP		SPECTOR, DAVID N		
	P.O. BOX 10500 MCLEAN, VA 2				ART UNIT	PAPER NUMBER
					2873	
					DATE MAILED: 08/13/2002	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NO.	F	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/708,087	09/708.087 11/08/2000		Yuji Miyauchi	P 275329 OL9200N-US	9921
		00/13/0000		EXAMINER	
909 PILLSBURY		08/13/2002 COP, LLP		SPECTOR, D	AVID N
P.O. BOX 1050 MCLEAN, VA				ART UNIT	PAPER NUMBER
UNITED STATES			2873		
				DATE MAILED: 08/13/2002	

CD. Turner on October 1 2002

Notice of Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2002, 37 CFR 1.18 is proposed to be revised to change the patent issue fees as set forth below. As stated above, the final fees may be a different amount, and applicant should check the web site given above when paying the fee.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))--\$655.00 By other than a small entity--\$1,310.00

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))--\$235.00 By other than a small entity--\$470.00

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))--\$315.00 By other than a small entity--\$630.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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•	Application No.	Applicant(s)	
	09/708,087	MIYAUCHI, YUJI	
Notice of Allowability	Examiner	Art Unit	
•• *	David N. Spector	2873	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	blication. If not include will be mailed in due	ed Course THIS
 This communication is responsive to <u>Amendment & Termin</u> The allowed claim(s) is/are <u>34-74</u>. The drawings filed on <u>08 November 2000</u> are accepted by Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the: 	the Examiner.		
1. Certified copies of the priority documents have	been received.		
2. Certified copies of the priority documents have			
3. Copies of the certified copies of the priority doc			ion from the
International Bureau (PCT Rule 17.2(a)).		3	
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. § 119(e) (to a provision	onal application).	
(a) The translation of the foreign language provisional a	pplication has been received.		
6. $\hfill \square$ Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. §§ 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of to the submark of the sub	this application. THIS THREE-MON itted. Note the attached EXAMINER	ITH PERIOD IS NOT ITS S AMENDMENT or N	EXTENDABLE.
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No. (b) including changes required by the proposed drawing of the including changes required by the attached Examiner'	correction filed, which has be	en approved by the E	
Identifying indicia such as the application number (see 37 CFR 1. of each sheet. The drawings should be filed as a separate paper			
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR TI 			ote the
Attachment(s)			
1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No. 10 7 Examiner's Comment Regarding Requirement for Deposit of Biological Material	2 Notice of Informa 4 Interview Summa 2. 6 Examiner's Amer 8 Examiner's State 9 Other Orgia Exps Patent Examiner	ary (PTO-413), Paper I adment/Comment	No



DETAILED ACTION

Terminal Disclaimer

1. The terminal disclaimer filed on 25 July 2002 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent 6,331,917 has been reviewed and is accepted. This terminal disclaimer has been recorded.

Reasons for Allowance

- 2. Claims 34-74 are allowed in light of applicant's arguments, amendments, and the terminal disclaimer, noted above. Applicant has canceled claims 1-33. A statement of the examiner's reasons for allowance follows.
- 3. The instant application is directed to an image pickup system including a novel zoom lens system disclosed previously by applicant in U.S. Patent No. 6,331,917 B1 (hereinafter '917).
- (a) Each of the independent claims 34-41, 51, 56, 58-64, and 66 of the instant application reads on an image pickup system that includes an objective optical system comprising a four-group (+ -+ +) inner-focusing zoom lens in accordance with the '917 patent; taken together with an electronic image pickup device located on an image side of the previously disclosed zoom lens system. Similarly, each instant independent claim is distinguished by a particular combination of the key features/limitations recited in the '917 claims. For example, independent claims 34-41, 51, 56, 58-62 are all distinguished over the prior art by the relationship 2.5 mm < $f_{B(min)}$ < 4.8 mm, originally disclosed in '917; independent claims 63 and 64 are each distinguished over the prior art by, *inter alia*, the cemented lens in the third lens group, which was originally disclosed in '917. Each of claims 63 and 64 are further distinguished in that the cemented lenses in the second lens groups are convex on the image side, as further disclosed in '917. In-

Art Unit: 2873



- dependent claim 66 is distinguished by the particular arrangement of lenses in the third lens group.
 - (b) The invention(s) comensurate with U.S. Patent No. 6,331,917 B1 excepted, the prior art taken either singly or in combination fails to anticipate or fairly suggest the limitations of applicant's independent claims, in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The claimed invention is therefore considered to be in condition for allowance as being novel and nonobvious over prior art.
 - 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Other Remarks/Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David N. Spector whose telephone number is (703) 305-1521. The examiner can normally be reached at this number Monday through Friday between 6:00 AM and 2:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps, can be reached on (703) 308-4883. The fax number for the organization where this application is assigned is (703) 308-7722.

August 8, 2002

David N. Spector Patent Examiner Gèorgia Epps
Supervisory Patent Examiner
Technology Center 2800